

WHAT IS CLAIMED IS:

1. An improvement on an expansion screw, comprising
a screw;
5 an expansion sleeve having an engaging head formed on a front end thereof; the engaging head being shaped such as to allow a spanner to be engaged therewith to hold the expansion sleeve still; the expansion sleeve having a plurality of elongated gaps extending lengthwise from a tail end thereof; the expansion sleeve having a
10 plurality of engaging portions on an inner side thereof;
an expanding block having a screw hole for allowing the screw to be screwed therein; the expanding block being in a shape of a truncated cone formed with a smaller front end and a larger tail end; the expanding block having outer engaging portions for fitting the
15 inner engaging portions of the expansion sleeve;
the screw being passed through the sleeve and screwed into the expanding block with the front smaller end of the expanding block being at least partially passed into the tail end of the expansion sleeve, and with the outer engaging portions of the expanding block
20 engaging respective inner engaging portions of the expansion sleeve in such a manner as to prevent angular displacement of the expanding block relative to the expansion sleeve, thus capable of making the block further pass into the sleeve to expand the sleeve

by screwing thereof through the screw.

2. The expansion screw as claimed in claim 1, wherein each of the inner engaging portions of the expansion sleeve is formed with a flat surface while each of the outer engaging portions of the expanding block is formed with a flat surface; the flat engaging portions being parallel to a central axis of the expanding block.
3. The expansion screw as claimed in claim 1, wherein each of the inner engaging portions of the expansion sleeve is formed with a flat surface while each of the outer engaging portions of the expanding block is formed with a sloping flat surface.
4. The expansion screw as claimed in claim 1, wherein each of the inner engaging portions of the expansion sleeve has an elongated engaging trench lengthwise formed thereon while each of the outer engaging portions of the expanding block has a sloping elongated engaging protrusion lengthwise formed thereon for fitting in a respective one of the elongated engaging trenches of the sleeve.
5. The expansion screw as claimed in claim 1, wherein each of the inner engaging portions of the expansion sleeve has an elongated engaging trench lengthwise formed thereon while each of the outer engaging portions of the expanding block has an elongated engaging protrusion lengthwise formed thereon for fitting in a respective elongated engaging trench of the sleeve; the elongated engaging protrusions being parallel to a central axis of the expanding block.

6. The expansion screw as claimed in claim 1, wherein each of the inner engaging portions of the expansion sleeve has an elongated engaging protrusion lengthwise formed thereon while each of the outer engaging portions of the expanding block has a sloping elongated engaging trench lengthwise formed thereon for fitting over a respective one of the elongated engaging protrusions of the sleeve.
7. The expansion screw as claimed in claim 1, wherein each of the inner engaging portions of the expansion sleeve has an elongated engaging protrusion lengthwise formed thereon while each of the outer engaging portions of the expanding block has an elongated engaging trench lengthwise formed thereon for fitting over a respective elongated engaging protrusion of the sleeve; the elongated engaging trenches being parallel to a central axis of the expanding block.
8. The expansion screw as claimed in claim 1, wherein the expansion sleeve has flat outer surfaces corresponding to the inner engaging portions thereof.
9. The expansion screw as claimed in claim 1, wherein the expansion sleeve has curved outer surfaces corresponding to the inner engaging portions thereof.